

2001-107452A



DERWENT-ACC- 2002-327154

NO:

DERWENT-WEEK: 200236

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TITLE: Structure of double grease groove for ball seat in ball joint

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PRIORITY-DATA: 2000KR-0029073 (May 29, 2000)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
KR 2001107452 A	December 7, 2001	N/A	001	F16C 011/06

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
KR2001107452A	N/A	2000KR-0029073	May 29, 2000

INT-CL (IPC): F16C011/06

ABSTRACTED-PUB-NO: KR2001107452A

BASIC-ABSTRACT:

NOVELTY - Double grease groove structure of a ball seat formed integrally in a ball joint is provided to improve torque by minimizing stress from a ball stud, and to improve clearance between a ball joint body and a ball stud.

DETAILED DESCRIPTION - A double grease groove is composed of a horizontal grease groove(105) formed horizontally around the inner spherical surface(102) of a ball seat(101) to charge grease, and a vertical grease groove(104) formed vertically from the horizontal grease groove in the ball seat to flow grease from the horizontal grease groove according to movement of the ball stud. Grease is stored between the ball seat and a ball stud sphere with moving

grease along the horizontal grease groove. Torque is stabilized between the ball seat and the ball stud with minimizing the contact area between the ball seat and the ball stud sphere. Stress is minimized, and clearance between the ball seat and the ball stud is improved with moving grease from the ball seat to the horizontal grease groove by turning the ball stud sphere.

CHOSEN-DRAWING: Dwg.1/10

TITLE-TERMS: STRUCTURE DOUBLE GREASE GROOVE BALL SEAT BALL JOINT

DERWENT-CLASS: Q62